

**PRODUCTION OF ALPHA-OLEFIN OLIGOMER**

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**Abstract of JP10036435**

**PROBLEM TO BE SOLVED:** To obtain an  $\alpha$ -olefin oligomer in a high selectivity and high yields by oligomerizing an  $\alpha$ -olefin by using a specified chromium catalyst prepared in the absence of any  $\alpha$ -olefin and feeding an additional halogen-containing compound into the reaction system during the reaction..

**SOLUTION:** In producing an  $\alpha$ -olefin oligomer by oligomerizing an  $\alpha$ -olefin in a solvent by a continuous or semi-batch reaction by using a chromium catalyst prepared by reacting at least a chromium compound, a pyrrole compound, an alkylaluminum compound and a halogen-containing compound in an organic solvent free from any  $\alpha$  olefin, an additional halogen-containing compound is fed into the reaction system during the reaction. When a halogen-containing compound, especially both a halogen-containing compound and an alkylaluminum compound are additionally fed into the reaction zone according to this process, the catalyst in the reaction zone can be activated with a consequent improved catalyst efficiency. Besides, such activation can be repeated whenever the catalytic activity becomes low.

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